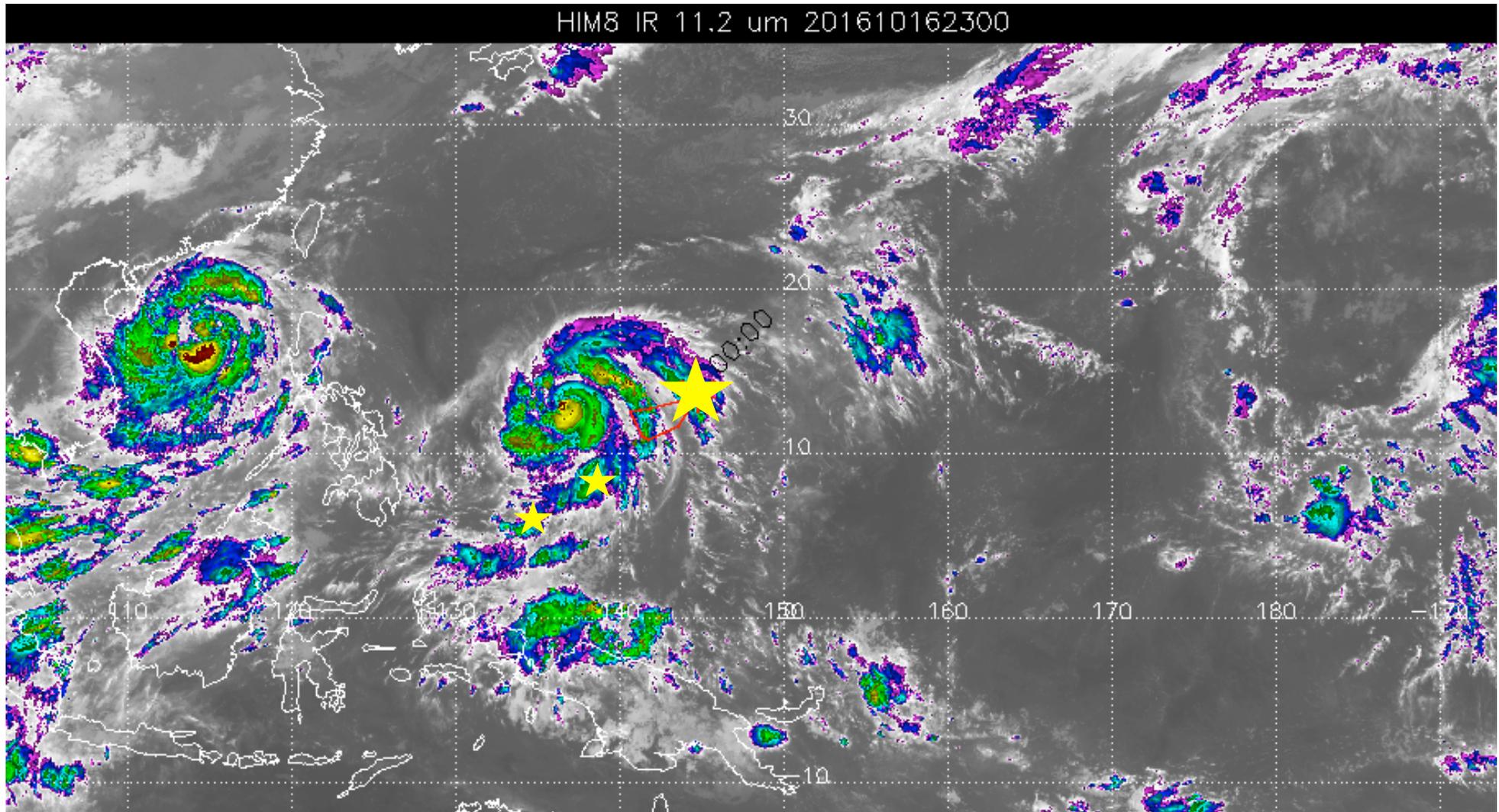


POSIDON

weather briefing

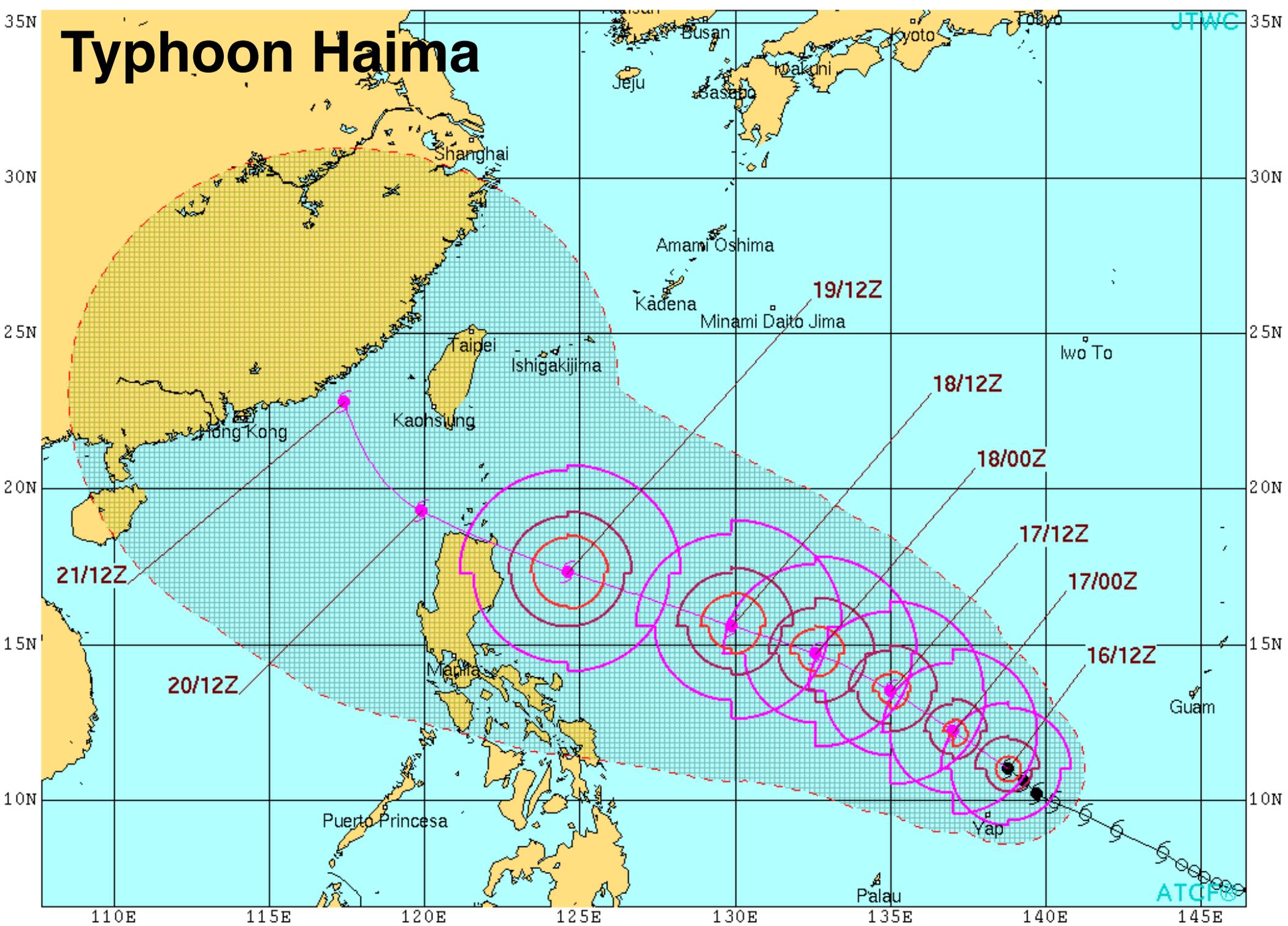
2016-10-17
(next flight: 2016-10-18, Tue)

current IR satellite imagery 10/17, 9am LT



- Typhoon Haima moving W away from Guam
- currently, last rain band over Guam
- trade wind pattern returns Tue evening

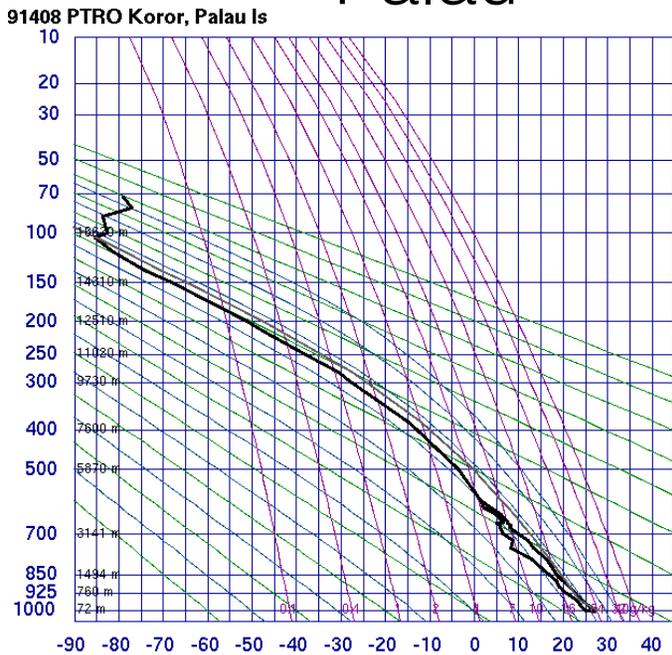
Typhoon Haima



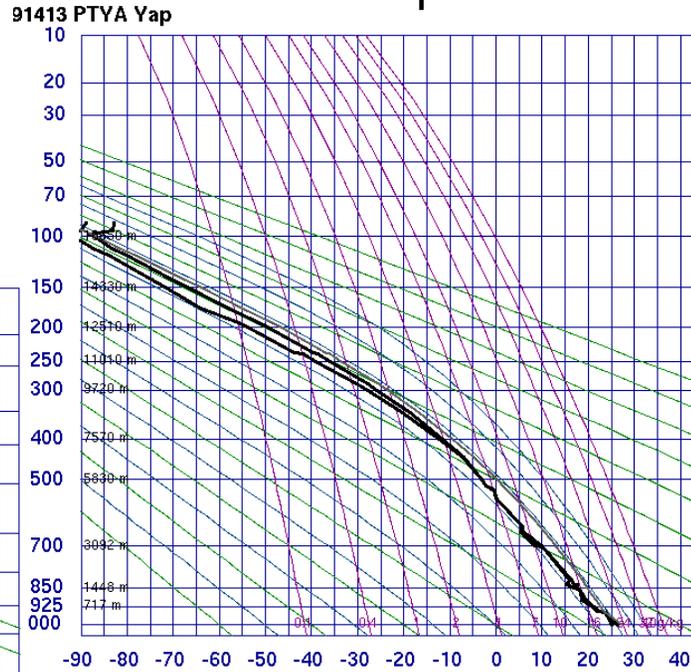
Soundings: 10/16, 10pm LT

Tropopause height and T

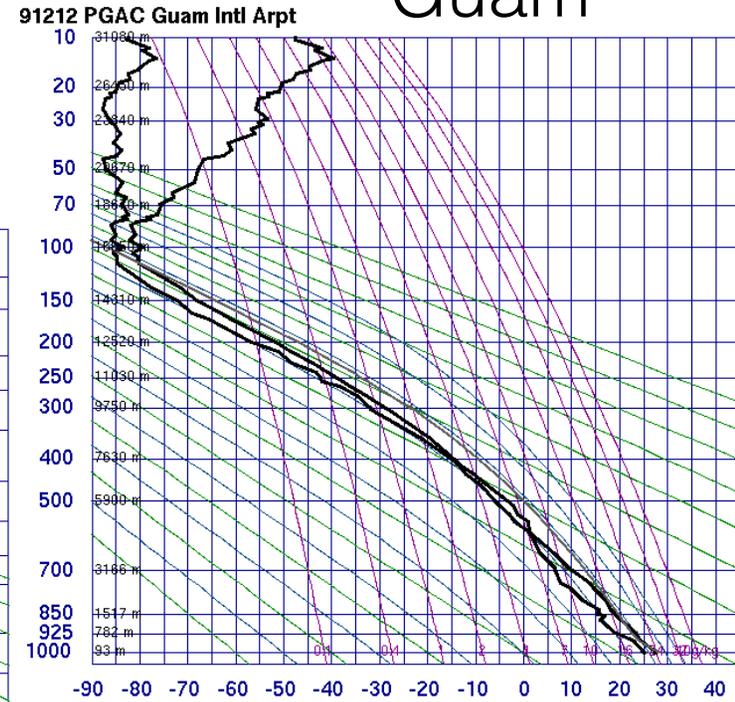
Palau



Yap



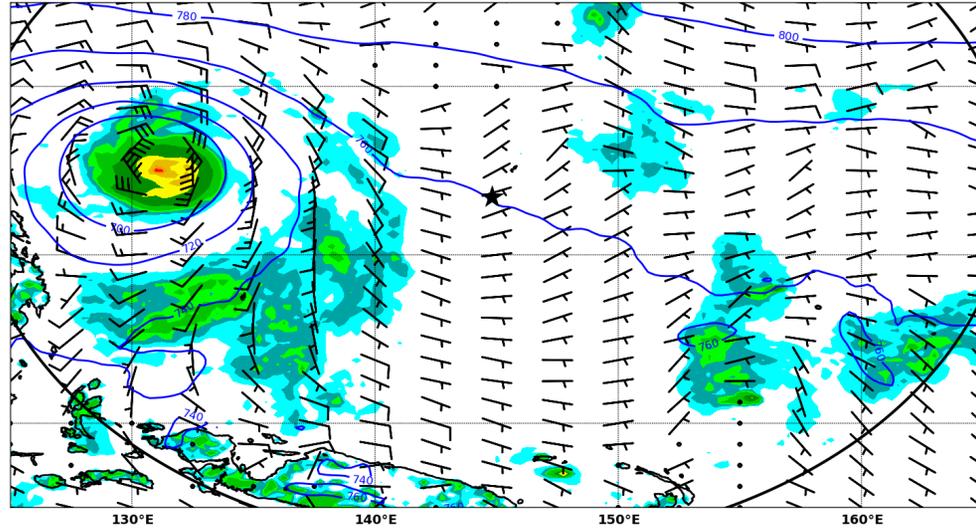
Guam



ECMWF forecast: precip (color) & surface winds

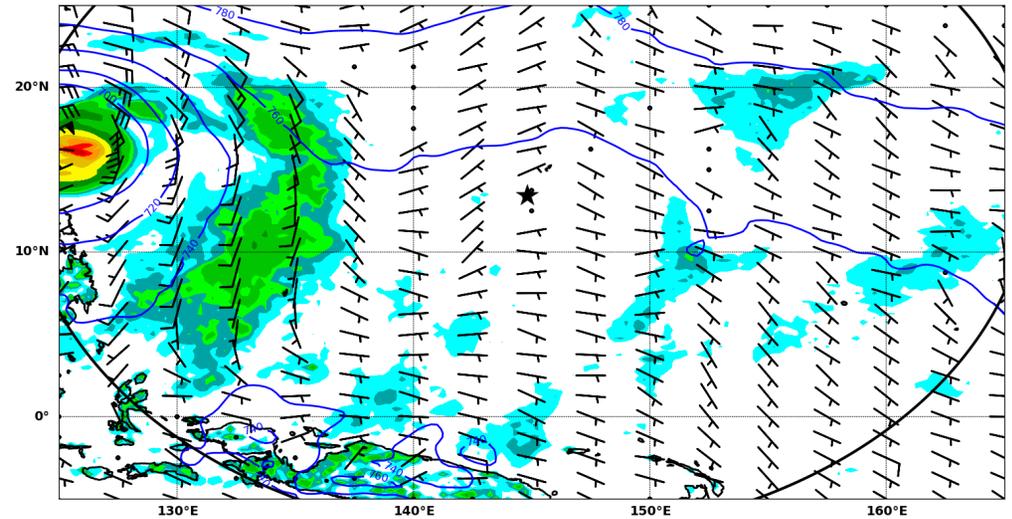
Tue 6pm

ECMWF forecast initialized on Sunday 16 Oct 2016 12:00UTC, 42hour forecast for 925mb Z, winds and Total precipitation on:
Tuesday 18 Oct 2016 06:00UTC , Guam time: Tuesday 18 Oct 2016 16:00



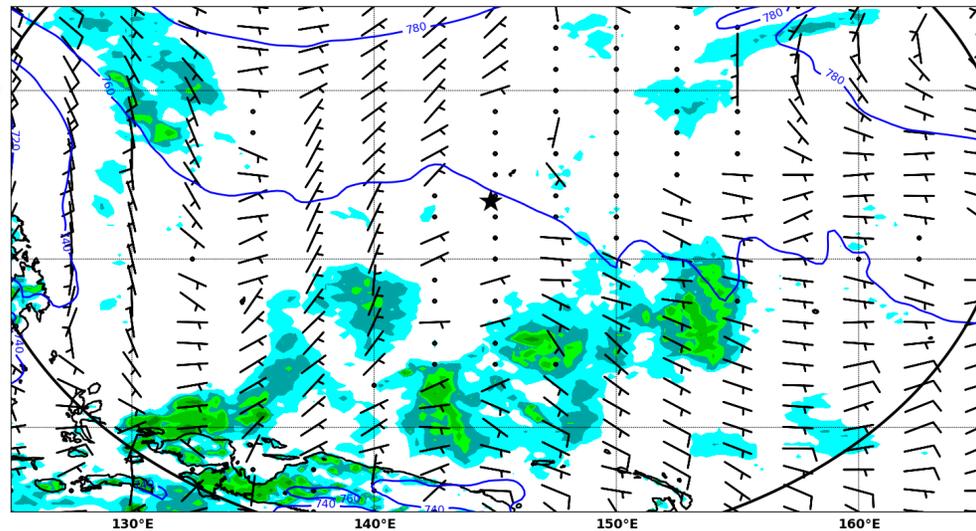
Wed 6pm

ECMWF forecast initialized on Sunday 16 Oct 2016 12:00UTC, 66hour forecast for 925mb Z, winds and Total precipitation on:
Wednesday 19 Oct 2016 06:00UTC, Guam time: Wednesday 19 Oct 2016 16:00



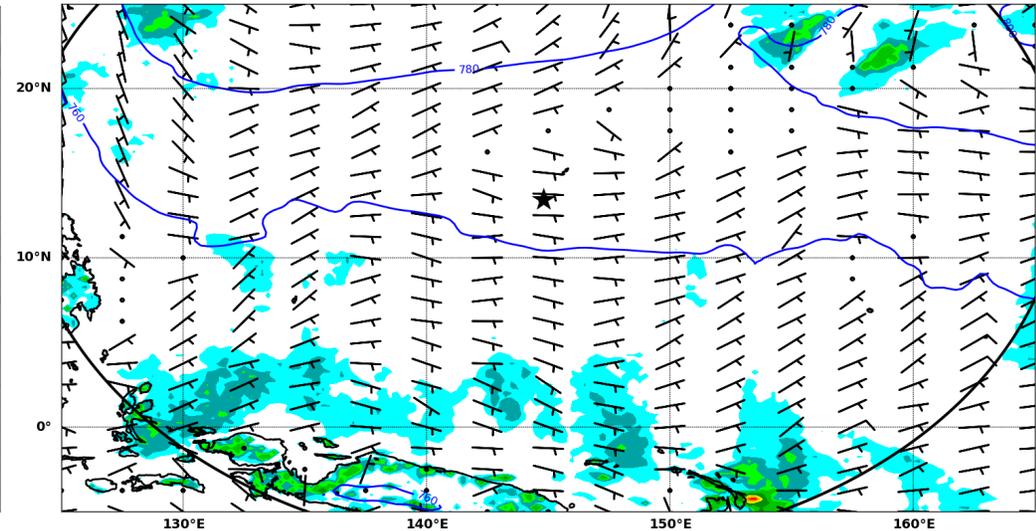
Thu 6pm

ECMWF forecast initialized on Sunday 16 Oct 2016 12:00UTC, 90hour forecast for 925mb Z, winds and Total precipitation on:
Thursday 20 Oct 2016 06:00UTC , Guam time: Thursday 20 Oct 2016 16:00



Fri 6pm

ECMWF forecast initialized on Sunday 16 Oct 2016 12:00UTC, 114hour forecast for 925mb Z, winds and Total precipitation on:
Friday 21 Oct 2016 06:00UTC , Guam time: Friday 21 Oct 2016 16:00



Summary

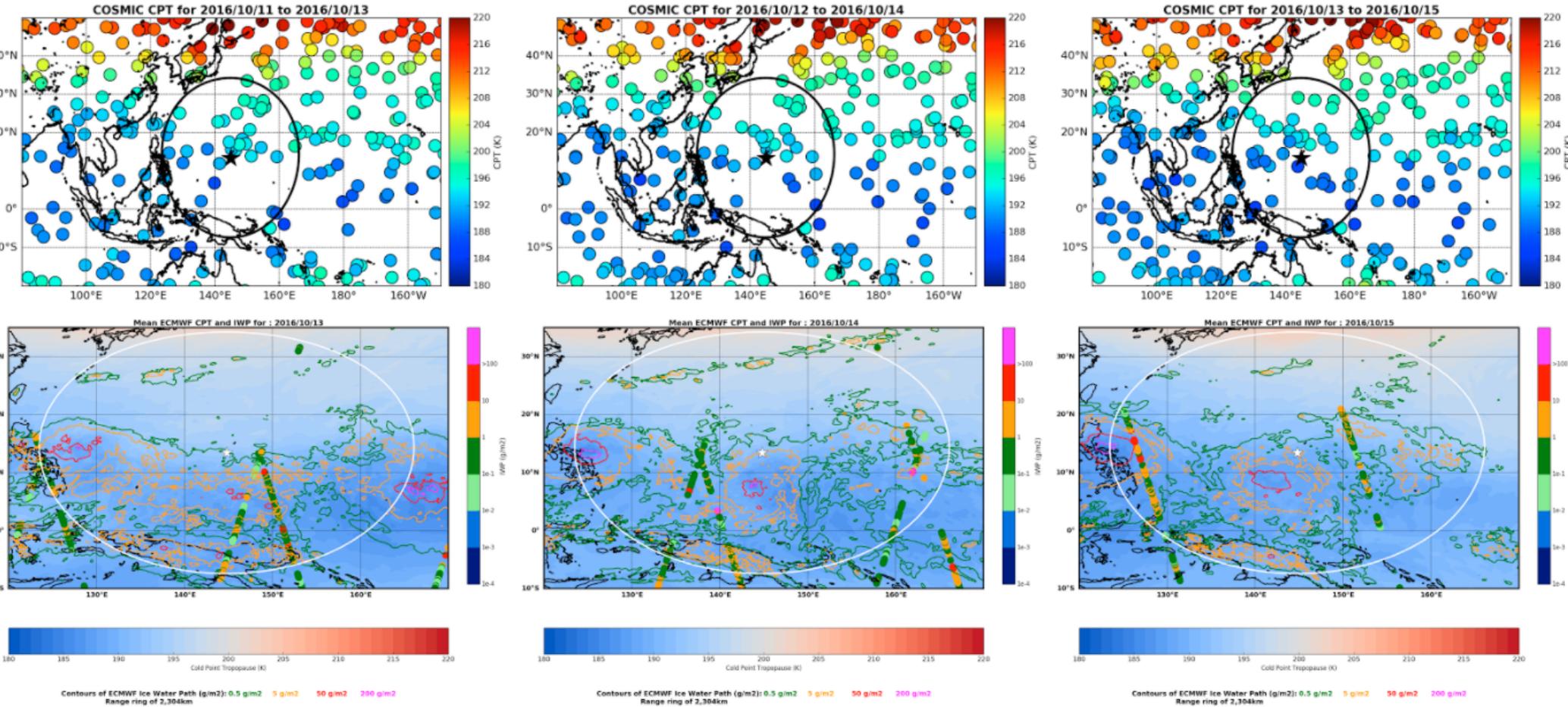
- Typhoon Haima moving away from Guam
 - trade-wind pattern (with isolated T-storms) returns Tue evening through weekend
- Good takeoff & landings conditions at Guam this week (Tue, Wed, Fri)
- generally, isolated showers & thunderstorms, E 5-10 knot winds
 - TAF (ending at 10/18 10am) indicates Tue takeoff winds SE 13 knots — should still be OK for flying

COSMIC, CALIPSO cirrus and ECMWF CPT for the past 3 days

10/13

10/14

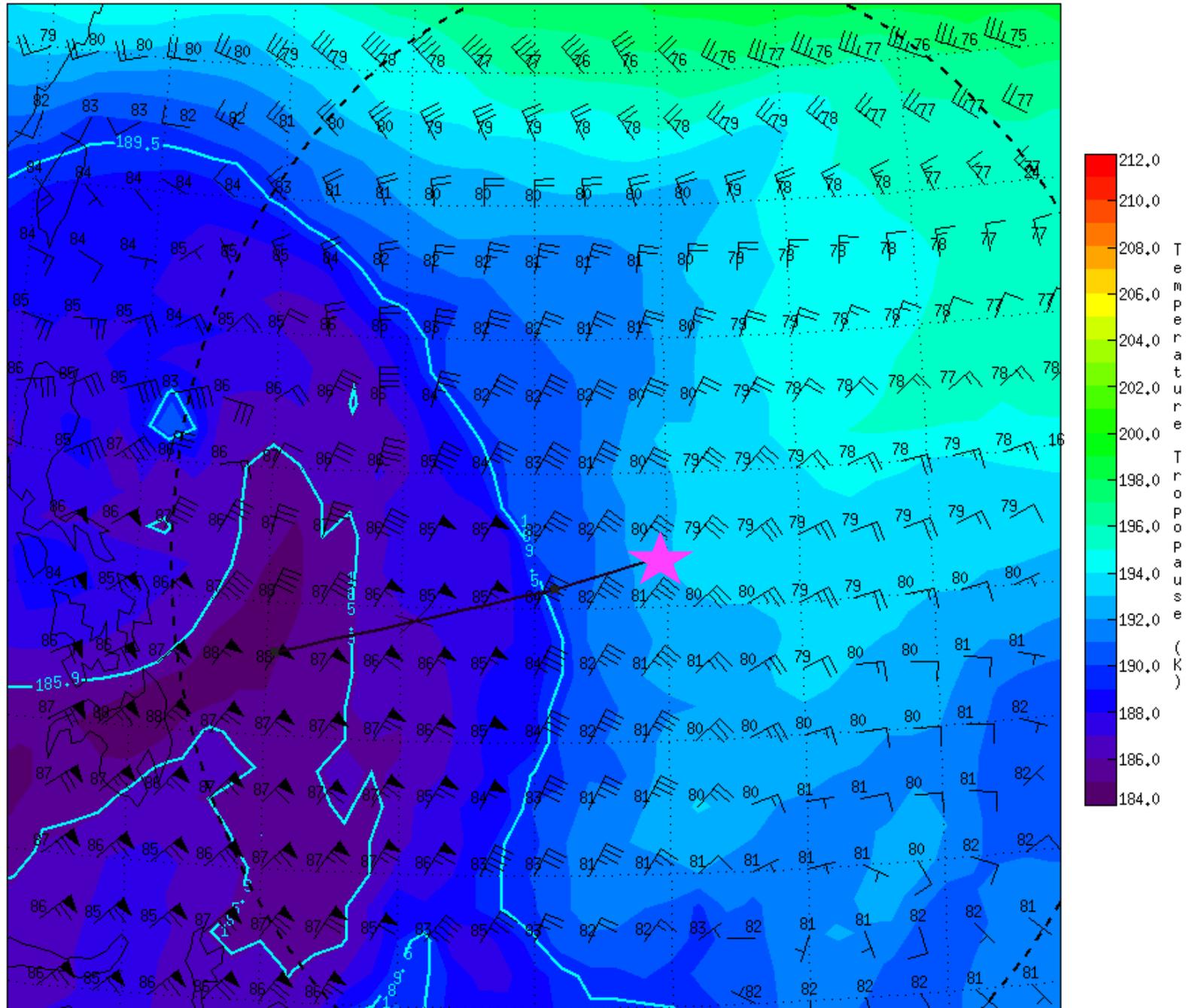
10/15



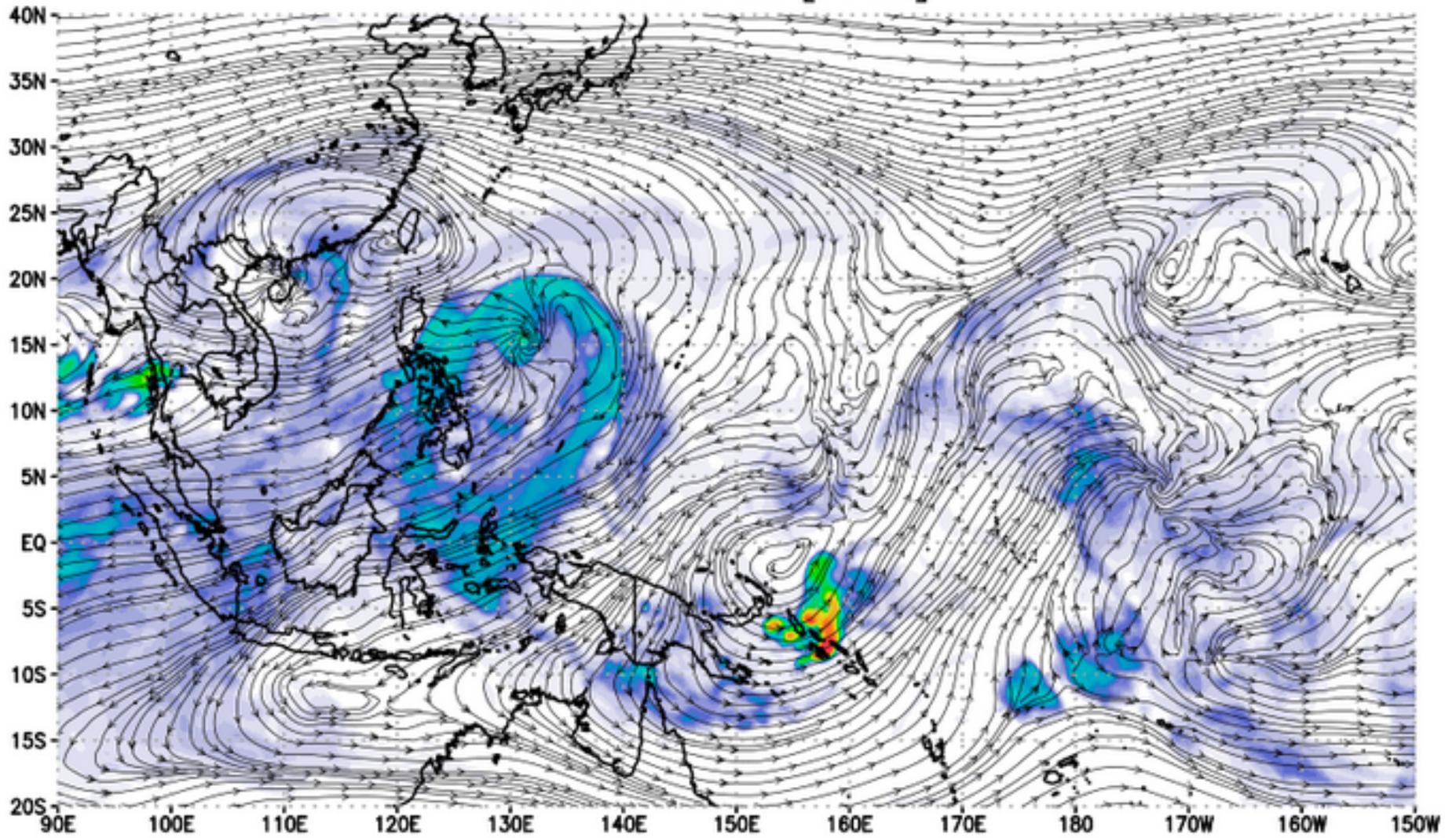
Just half of the calipso data were available for 10/15 when the plot was done

10/18 (Tue) flight plan

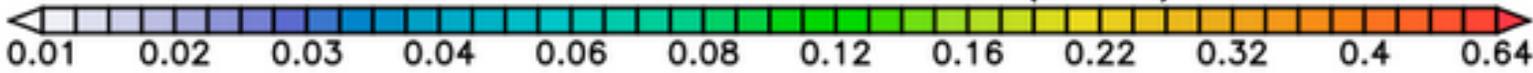
NCEP GFS Temperature Tropopause and Wind Flags+Temp on Trop
Init: 2016101612 Valid: 2016101900



150 hPa SO₂ [PPBV]

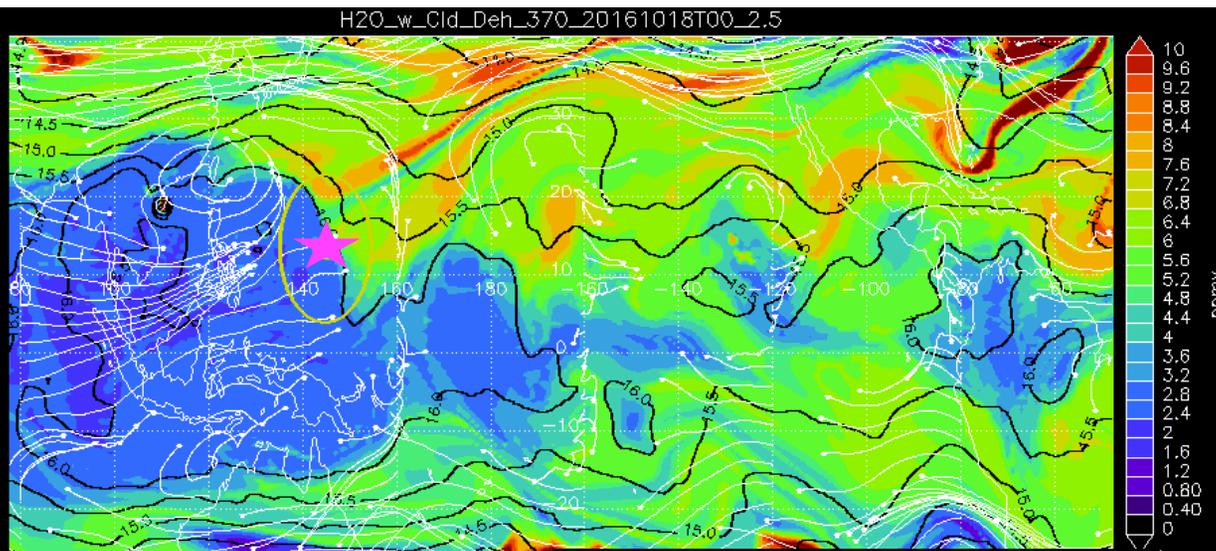


Valid: Tue 03z 2016-10-18 ($\tau=39$)



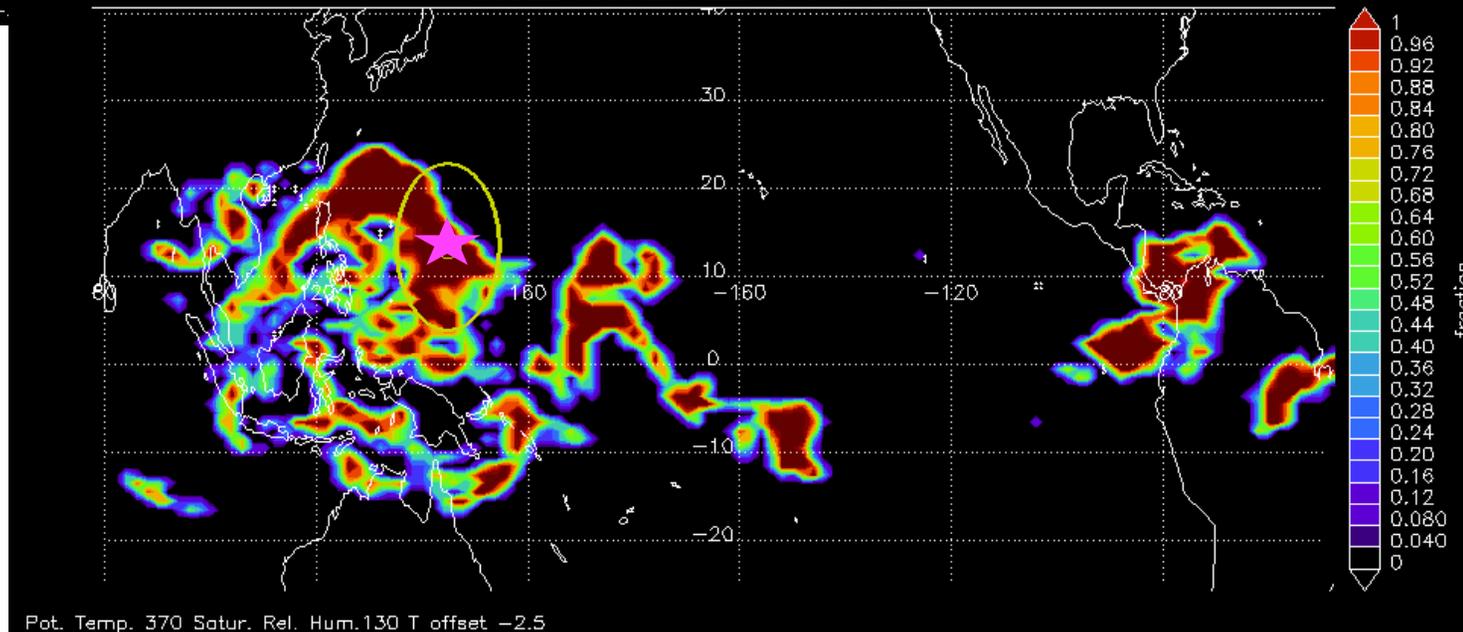
Mark's cloud forecast

Tue 10/18, 10am



Integ length = 3d, Pot. Temp. 370 Satur. Rel. Hum.130 T offset -

Cloud_fraction_370_20161018T00_2.5



Pot. Temp. 370 Satur. Rel. Hum.130 T offset -2.5